Medical reference
Clinical research overview

Study description

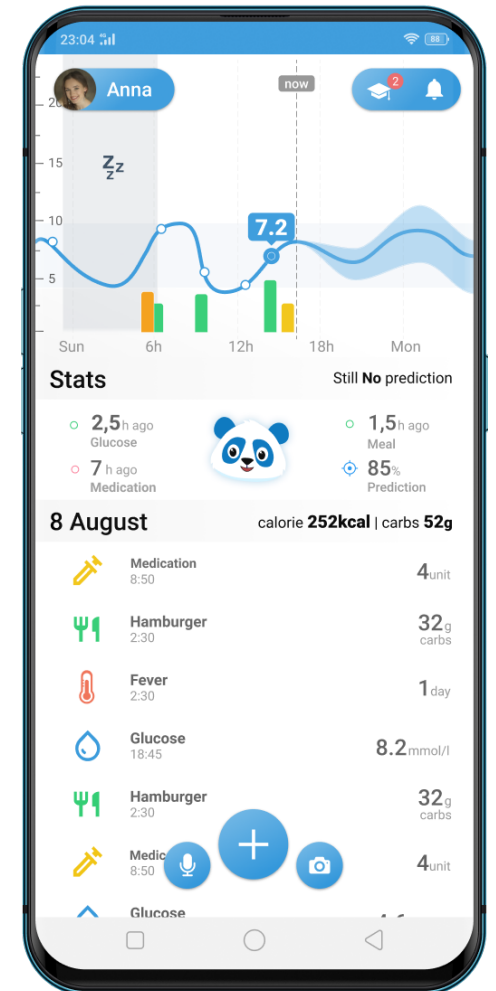|	
Start - end date:	13/06/2019 - 30/09/2019
Location:	SOTE, III. Department of Internal Medicine Clinic, Hungary, 1125 Budapest, Kútvölgyi street 4.
Research leader:	Dr. Hosszúfalusi Nóra
Publication helper:	Dr. Tabák Ádám
Participants:	20 people with type 1 diabetes
Age range of subjects:	18 - 55 év
Turns:	3 groups, 8-6-6 diabetic, 28 days
Telephone consultation:	on days 1., 3., 7., 14., 21., 28.
Primary purpose:	Determining the accuracy of the blood glucose level prediction
Official title:	Rekurrens neurális háló alapú személyre-szabott vércukorszint előrejelzés 1-es típusú cukorbetegségben

Blood glucose prediction DiaPredict*

From the required blood glucose level, medication, food intake, sleep and physical activity, there is a blood glucose level prediction for up to 2 hours available.

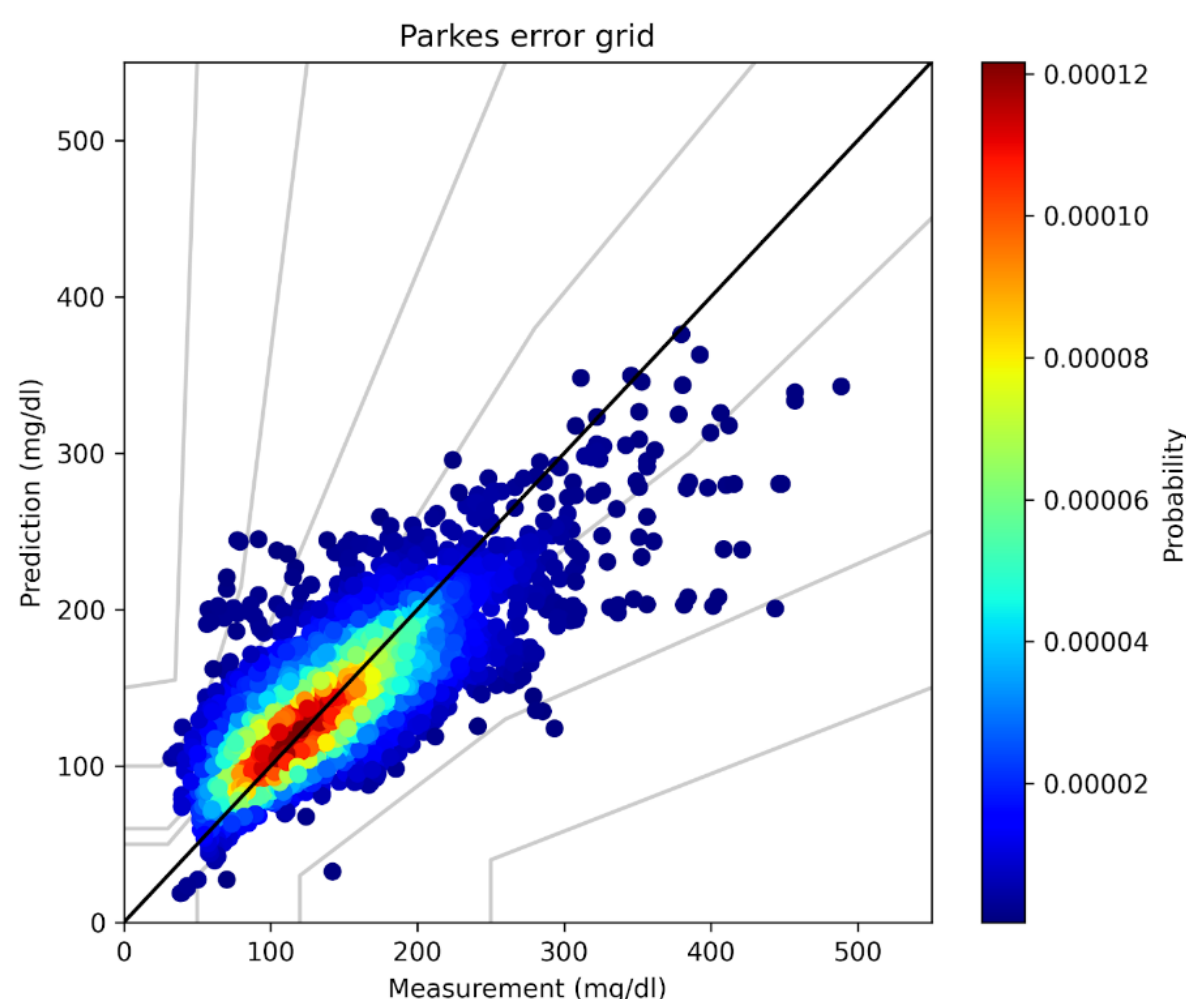**The minimum requirements for the system:**
- 4 blood glucose level measurements per day.
- 1 medication intake per day.
- 3 meal log per day.
- 1 sleep log in every 24 hours.

DiaPanda shows the missing data with red bars, and helps you to keep up with the loggings.

Előrejelzés

Kérlek add meg a hiányzó adatokat az előrejelzéshez.

Rendben

Parkes error grid

Accuracy:
98,5% of the predictions in the 0-2 hours prediction horizon are **in the clinically acceptable A and B zones** on the Parkes Error Grid system, which is a standard metric, that is used to validate certified blood glucose level sensors.

This means the blood glucose level prediction still can't replace the blood glucose level meter and it has no will to do it so!

Adaptív - prediction: The system can also take into the calculations the data that is logged ahead of the time.

Disclaimer: In spite of our greatest effort, the system is intended to complement, nor replace, information obtained from standard blood glucose monitoring devices. All therapy adjustments should be based on measurements obtained from standard blood glucose monitoring devices and not on values provided by the system. In every special situation the responsible doctor's advice should to be followed!

The results are communicated in "MDT conference" (Hungarian Diabetes Association conference) "MDT Hírmondó" (Official journal) and will be publicated in "Diabetes Technology & Therapeutics" journal.